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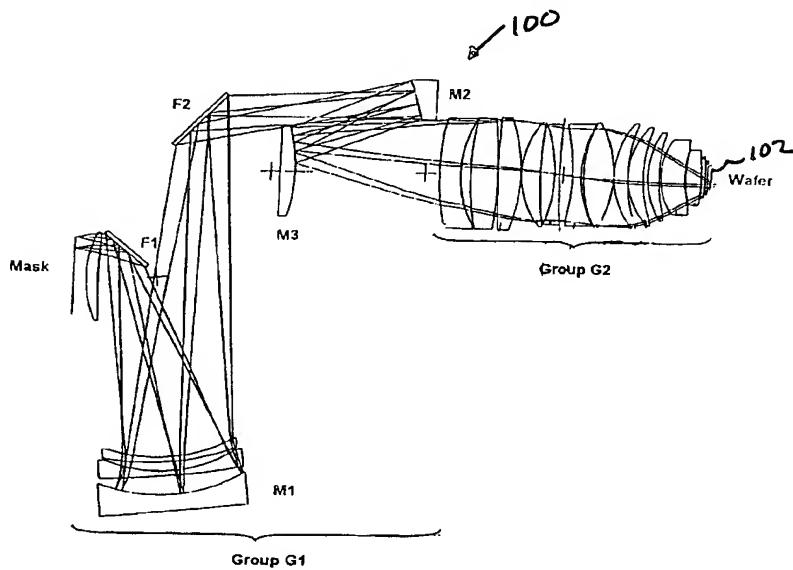
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(54) Title: CATADIOPTRIC MULTI-MIRROR SYSTEMS FOR PROTECTION LITHOGRAPHY



(57) Abstract: According to one exemplary embodiment, a photolithographic reduction projection catadioptric objective is provided and includes a first optical group (G1) and a second substantially refractive optical group (G2) more image forward than the first optical group (G1). The second optical group (G2) includes a number of lens elements (L4-L16) and has a negative overall magnifying power for providing image reduction. The first optical group (G1) has a folded geometry for producing a virtual image and the second optical group (G2) receives and reduces the virtual image to form an image with a numerical aperture of at least substantially (0.80).

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